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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/694,411	10/23/2000	Dee Gardiner	T9180	9053
7590 05/11/2005			EXAMINER	
Steve M. Perry THORPE, NORTH & WESTERN, LLP			VO, CLIFF N	
P.O. Box 1219			ART UNIT	PAPER NUMBER
Sandy, UT 84091-1219			2671	

DATE MAILED: 05/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/694,411	GARDINER ET AL.				
Office Action Summary	Examiner	Art Unit				
	CLIFF N VO	2671				
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (3 - If NO period for reply is specified above, the maximum state - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	OCATION. of 37 CFR 1.136(a). In no event, however, may a nunication. 0) days, a reply within the statutory minimum of this atutory period will apply and will expire SIX (6) MOI will, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) file	ed on					
2a)☐ This action is FINAL .	2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-23</u> is/are pending in the at 4a) Of the above claim(s) is/are 5) ⊠ Claim(s) <u>10-14</u> is/are allowed. 6) ⊠ Claim(s) <u>1,3,4,15,17-20,22 and 23</u> is 7) ⊠ Claim(s) <u>2,5-9,16 and 21</u> is/are object to restrict the string of the and 21 is/are object to restrict the string of the and 21 is/are object to restrict the and 22 is/are object to restrict the and 21 is/are object to restrict the and 22 is/are object the and 23 is/are object th	re withdrawn from consideration. s/are rejected. cted to.					
Application Papers						
9) The specification is objected to by the	e Examiner.					
10) The drawing(s) filed on is/are:	a) accepted or b) objected to	by the Examiner.				
Applicant may not request that any object	ction to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including 11) The oath or declaration is objected to		g(s) is objected to. See 37 CFR 1.121(d). d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	documents have been received. documents have been received in A of the priority documents have beer nal Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (P3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date	PTO-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)				

Application/Control Number: 09/694,411

Art Unit: 2671

DETAILED ACTION

- 1. Applicant is advised that the Notice of Allowance mailed is vacated. If the issue fee has already been paid, applicant may request a refund or request that the fee be credited to a deposit account. However, applicant may wait until the application is either found allowable or held abandoned. If allowed, upon receipt of a new Notice of Allowance, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to a specified Deposit Account.
- 2. The indicated allowability of claims 1, 3-4, 15, 17-20 and 22-23 is withdrawn in view of the newly discovered reference(s) to Kajiya et al (U.S. Patent No. 5,864,342). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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4. Claims 1, 3-4, 15, 17-20 and 22-23 is rejected under 35 U.S.C. 102(e) as being anticipated by Kajiya et al (U.S. Patent No. 5,864,342).

As per claims 1 and 20, Kajiva et al teach a method and system for rendering graphical objects to image chunks comprising a step of dividing a geometry buffer into a plurality of screen bins (col.10, lines 35-42, i.e., chunks), a step of storing primitives in each screen bin containing a portion of the primitive (col.15, lines 59-64 and col.16, lines 1-2), a step of rendering the screen bins, by row from top to bottom, into the pixel frame buffer (col.8, lines 45-49; col.41, lines 22-27) and a step of displaying at least one rendered screen bin before the rendering of all the screen bins has completed for the single pixel frame buffer (col.60, lines 24-17, 63-67 and col.61, lines 11-13).

As per dependent claims 3 and 22, Kajiya et al further teach a step of initiating the displaying of the screen bins rendered after at least one row of screen bins has completed rendering (col.61, lines 11-13).

As per dependent claims 4 and 23, Kajiya et al further teach a step of using a hardware interlock to ensure that the rendering step does not advance of the display step (Fig.22, 748).

Claims 15 and 17 are the system claims which perform those steps cited in the method claims 1 and 3, respectively, thus they are rejected under a similar rationale.

As per dependent claim 18, Kajiya et al further teach the claimed features at col.15, lines 59-67.

As per dependent claim 19, Kajiya et al further teach the claimed features at col.61, lines 5-13).

Allowable Subject Matter

- 5. Claims 10-14 are allowed.
- 6. Claims 2, 5-9, 16 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CLIFF N VO whose telephone number is 571-272-7651. The examiner can normally be reached on 2nd Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MARK K ZIMMERMAN can be reached on 571-272-7653. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cliff Vo 4/14/2005 MARK ZIMMERMAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600